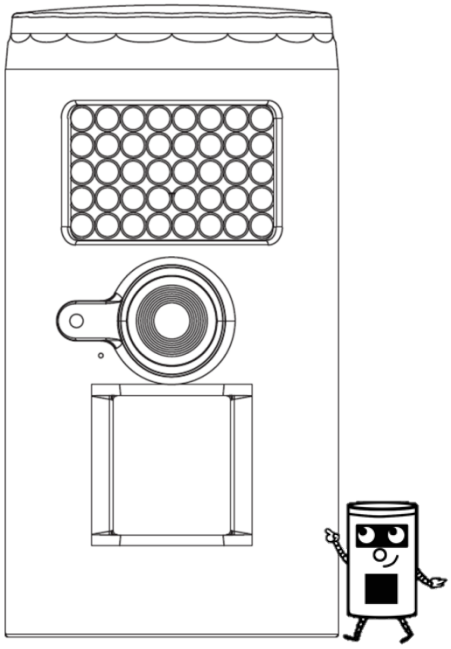
VERIFIER
VISUAL VERIFICATION SERIES

WATCHMAN



USER MANUAL

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In the WATCHMAN package, you can find;

- WATCHMAN
- User Manual
- Strap
- USB Cable
- AV Cable
- Wall Mounting Device
- Mounting Screws

Important Notice

WATCHMAN is not engineered to capture all incidents. Depending on a configuration and environmental conditions, WATCHMAN may not perform as intended. Please use WATCHMAN at your own risk.

Images or Video captured by WATCHMAN may belong to you/ user however it does not exempt nor remove you/user from a full responsibility to meet local codes of conduct such as laws and any form of social agreements.

Please also note that not complying with following guidelines will void a product warranty and may result in injuries and damages to a property.

- WATCHMAN is a very sophisticated electronic device. Despite Watchman being weather resistant, never attempt to immerse the unit in water or any other liquid.
- Please do not disassemble your WATCHMAN. Opening or removing undesignated parts may expose you to dangerous voltage points or various injury risks.
- Please do not use new and old batteries at the same time. It may result in an explosion, leakage of electrolyte, emission of toxic gases
- When an external cable (Power adaptor, Video cable or PC connection cable.) is attached to WATCHMAN, IP66 rate will be void and please take extra caution against moisture and dusts.
- WATCHMAN emits a 650nm laser as an installation aid. Please avoid pointing the laser at any eyes. WATCHMAN is registered with U.S. Food and Drug Administration under class 2 laser products and instruments for importation to USA.

To ensure WATCHMAN to perform effectively, please take following cares.

- Keep WATCHMAN in a dry, cool and a dust-free environment while not using.
- Use a soft cloth for cleaning lens. Avoid scratching or leaving finger marks on the lens.
- Please remove batteries when storing WATCHMAN away. Set WATCHMAN in "OFF" setting while installing or removing batteries and a memory card.
- Watchman is not a shockproof. It can break when hit by a hard surface.
- Please read through this manual before deploying WATCHMAN.

General Information

Storing conditions

- When not in usage, please remove batteries.
- Operating Environment: 14 to 104 deg F (-10 to 40 deg C). 20-85% relative humidity, no-condensation environment.

Setup Tips

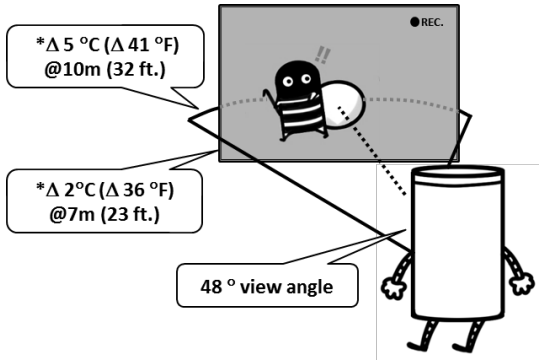
- Use new alkaline C batteries.
- From a point of motion detection, WATCHMAN requires about one second till capturing an image/video.
- Please avoid sun and strong light hitting directly into WATCHMAN. It will blind images/videos.
- If a radiator or an air vent is in a detection area, WATCHMAN may likely be too busy with its duty.
- Please note that a sudden change of heat energy will

induce WATCHMAN to capture an image.

- A tree or a large plant may also activate the WATCHMAN when they sway in a wind.
- Please perform a walk test to ensure your setup. A tablet PC or any mobile device with SD-card hosting capability can be very handy to check images on site.
- If AC adaptor is preferred over battery operation, use “WM-Adaptor” available from the same vendor of the WATCHMAN. (US only)
- Please refer to a “QUICK START GUIDE”.
- More tips and guidelines are in P.22 “GETTING STARTED”

Detection Area Guideline

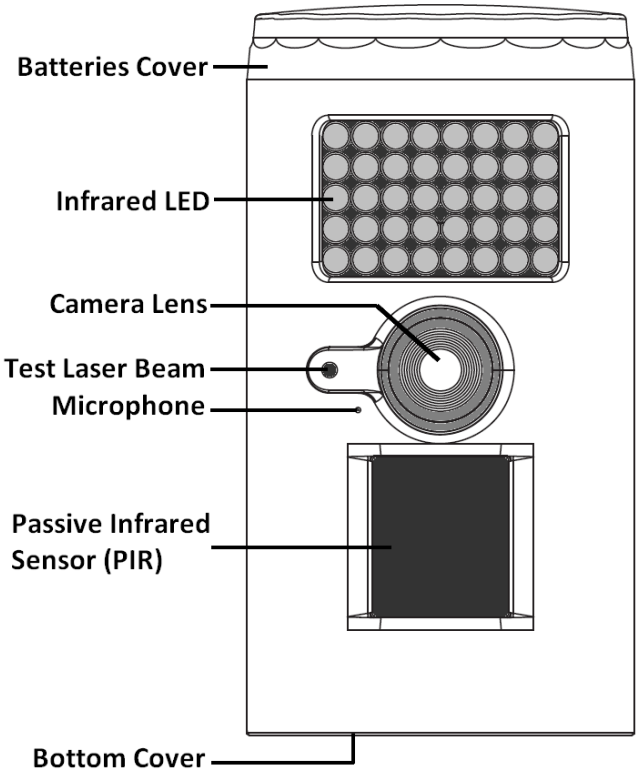
***Approximation of recognizable temperature differences at given distances**



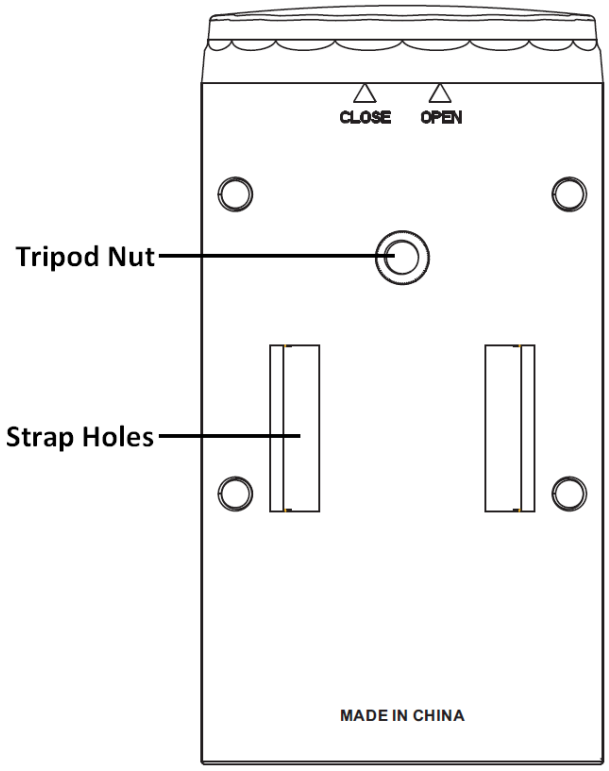
NOTE: Detection performance is dependent on environmental conditions. Motion detection performance cannot be guaranteed at all times.

WATCHMAN Overview

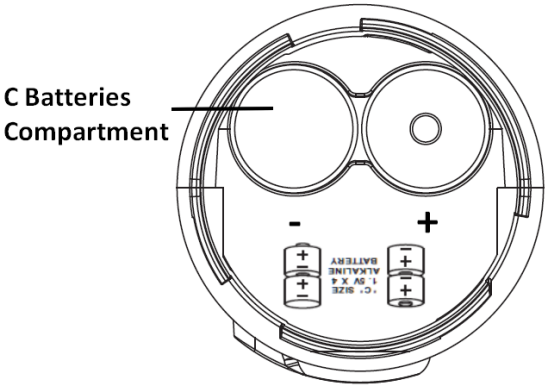
Front View



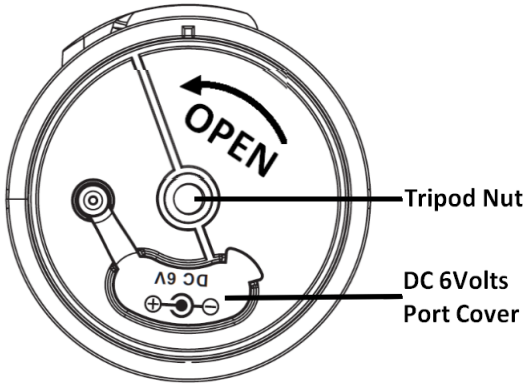
Back View



Top View (After Open Top Cover)

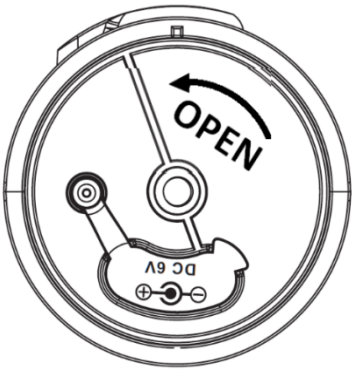


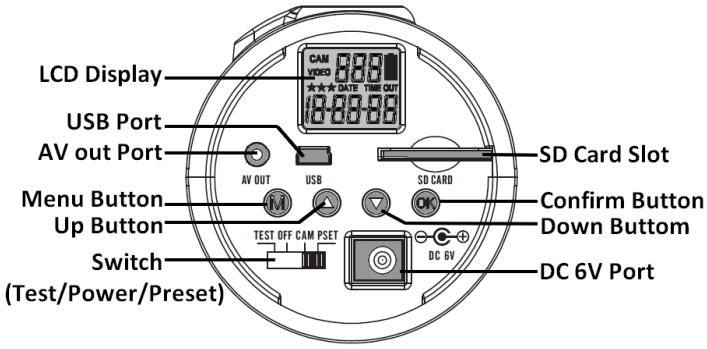
Bottom View



Bottom Image with Function Buttons

- To open, turn the bottom cover as indicated.





Parts Definitions

Definitions of Front View parts

- **Batteries Cover:** Turn to open the top cover. Install the batteries.
- **Infrared LED:** It emits 940nm invisible IR light if dark.
- **Camera Lens:** Camera module to capture images/videos.
- **Test Laser Beam:** 650nm Laser to mark indicates the center of detection area. It also indicates a countdown.

Please avoid the laser beam point to your eyes.

- **Microphone:** A microphone module to record sounds while capturing a video.
- **Passive Infrared Sensor (PIR):** Motion detector that recognizes a radical change in heat radiations.
- **Bottom Cover:** Access to function buttons for settings.

Definitions of Back, Top and Bottom View parts

- **Tripod Nut:** Attach a wall mount device.
- **Strap Holes:** Run through a strap to mount WATCHMAN onto a pillar or a tree.
- **Batteries Compartment:** Use “C” alkaline batteries.
- **DC 6 Volts Port Cover:** Tightly close to prevent water immersion. Connect designated power adaptor here.

➢ **NOTE: Pls. make sure that installed batteries or the external power is in the correct polarity.**

➢ **Definitions of Bottom Open View parts**

- **LCD display:** displays the setting and WATCHMAN status.
- **USB port:** connects WATCHMAN to PC by provide USB cable for captured image/video download.
- **AV out:** connects WATCHMAN to TV by provide AV cable to play the captured image/video.
- **Menu Button:** Press to change the WATCHMAN setting.
- **Up and Down Button:** Press to switch modes and adjust the setting value.
- **Switch:** Switch to turn on/off the power or to go into test/Preset Mode.
- **SD Card Slot:** install a SD memory card here.
- **Confirm Button:** Pressing to confirm settings.
- **DC 6V port :** Input for a DC 6V external power

Definitions of LCD Display

- **CAM:** indicates that WATCHMAN is in a still image mode.
- **VIDEO:** indicates that WATCHMAN is in a video mode.
- **:** Indicates a burst mode or video length.
- **:** indicates a battery status.

Full (Icon on) **Half (Icon blinking)** **Low (Icon off)**

➢ **When batteries are low, the LCD display shows "bAtLo". Please replace current batteries with new batteries.**

: It indicates the still image/video resolutions.

: Image resolution is 8Mp.

: Image resolution is 5Mp or video is HD 720P.

: Image resolution is 3Mp or video is VGA.

- **D:** indicates a date setting.
- **T:** indicates a time setting.
- **T-O:** indicates a time out setting.
- **PIR:** indicates a PIR detection Mode.
- **TLS:** indicates a Time Lapse Mode.
- indicates a date/time/time out value during setting or captured image/video quality. The date and time will be stamped to the captured images and videos.

Battery and Memory Installation

- **WARNING: Do not use batteries with different voltages. Doing so will damage WATCHMAN and will void the warranty.**
- **WARNING: ALWAYS set WATCHMAN in "OFF" position while installing and removing batteries and a memory card, doing otherwise will damage WATCHMAN.**

WATCHMAN operates in two different modes of power supplies.

Alkaline Batteries "C" cell

The internal battery compartment accepts 4 "C" cell batteries. Be sure to use alkaline batteries. Install batteries with correct polarity (+/-) as noted inside the battery compartment.

DC 6V external power

The Watchman is equipped with an external power jack designed to accept the barrel plug cable of the WM-Adaptor (Sold separately). Using any adaptor other than the approved WM-Adaptor will void the warranty of the Watchman in the US.

- Make sure WATCHMAN is in the **OFF** position.
- Insert the external AC to DC power adaptor barrel plug into the DC 6V jack on the bottom of WATCHMAN housing.
- Turn the switch to a **CAM** or **PSET**.

Memory Options

WATCHMAN is also equipped with an expandable media card slot capable of accepting up to 32GB SD card with Class 6 or

below speed rating (sold separately). The LCD display will show the number of images stored on the SD card. If no SD card is inserted the front counter display will show "**NOSd**".

And once memory up to full, WATCHMAN will re-loop the memory to keep the last image and delete the first image from memory.

Inserting SD memory card

- **NOTE: Make sure WATCHMAN is in the OFF position whenever adding or removing memory.**

- Insert SD memory card in to the SD card slot completely and in the correct direction as shown by the sticker located at the side of the housing.
- To remove the SD memory card, depress the SD card and pull out the card gently.
- SD cards must be clean (no images from other sources). If you are using the SD card from other WATCHMANs, please make sure to format the SD card in your computer prior to use in your WATCHMAN. New cards are good to use straight from the package.

FORMAT – Definition: When you format a SD memory card, the operating system erases all information and files on the card. Then it creates an internal address tables that it later uses to locate information and files. Formatting also removes all Hidden System files as well. Basically it cleans your SD memory card just like if it was brand new. **DO NOT USE** File System type: **"NTFS"** or **"exFAT"**, these formats are not supported.

WATCHMAN Setup and Program

When WATCHMAN switch is first turned in the **CAM** location, the internal LCD display shows WATCHMAN status. The following information is present on this screen.

Passive Infrared Mode

Time-Lapse / PIR Mode

If no buttons are pressed after 30 seconds the LCD display will go to sleep mode and LCD display switch to show the capture quality and enter 1-minute count down for user leave the capture area, then WATCHMAN enter PIR detection mode or Time lapse mode. To wake up WATCHMAN by press UP or DOWN button once, the LCD display will resume the status of WATCHMAN.

Setting the Preset Program Selection Mode:

This WATCHMAN is equipped with 2 Program selection toggle switch settings. Make sure WATCHMAN switch is in the **OFF** position **BEFORE** changing any toggle switches.

- **NOTE: If you choose one of the Preset settings, your WATCHMAN will only function in PIR mode not Time Lapse mode**

- **CAM** - This allows the user to define what setting WATCHMAN will use.

- **PSET -** This bypasses all user defined settings and uses the following settings: (PIR mode / Resolution: 3MP / Burst: 3P / Time out: 30 seconds).

Setting the CAM Operation Mode:
Your WATCHMAN can be programmed to operation either in PIR Detection mode or Time Lapse / PIR mode.

- Slide the switch to the **CAM** position.
- LCD display will show WATCHMAN status screen.
- Press the **[M]** button once within 30 seconds to enter the programming mode, the word **PIR** or **TLS** will be blinking.

- Press the **[UP]** or **[DN]** button to select PIR mode.
- Press **[OK]** to save your selection.
- Press **[M]** button to exit.

Setting the Image Resolution in PIR mode:
Your WATCHMAN can be programmed to 3 different image resolutions: 3 Stars is 8Mp, 2 Stars is 5Mp and 1 Star is 3Mp.

- Slide the switch to the **CAM** position, LCD display will show WATCHMAN status screen.
- Press the **[M]** button once within 30 seconds to enter the programming mode.
- The word **PIR** will be blinking, press **[OK]** to confirm WATCHMAN's operation is PIR detection.
- Press **[UP]** or **[DN**] button until the word **CAM** is blinking.
- Press the **[OK]** button ONCE to confirm WATCHMAN into **CAM** mode, the **STARTS** will be blinking.
- Press the **[UP]** or **[DN]** button to select the desired resolution.
- Press **[OK]** to save your selection, then current number of burst shoot will blinking. Press **[OK]** to enter the burst shoot setting or press **[M]** button to exit.

Setting the Image burst shoot in PIR mode:
Your WATCHMAN can be programmed to shoot 1-9 pictures per triggering.

- Slide the switch to the **CAM** position, LCD display will show WATCHMAN status screen.
- Press the **[M]** button once within 30 seconds to enter the programming mode.
- The word **PIR** will be blinking, press **[OK]** to confirm WATCHMAN's operation is PIR detection.

- Press **[UP]** or **[DN**] button until the word **CAM** is blinking.
- Press **[OK]** button ONCE to confirm WATCHMAN into **CAM** mode.
- Press **[UP]** button ONCE to enter burst shoot setting, the current number of burst shoot will blink.
- Press **[OK]** then press the **[UP]** or **[DN]** button to select the desired burst mode setting or number of pictures per triggering.
- Press **[OK]** to save your selection, then the time out **T-O** will blink. Press **[OK]** button to enter time out setting or press **[M]** button to exit.

Setting the Video Resolution in PIR mode:

Your WATCHMAN can be programmed to 2 different video resolutions: 2 Stars is HD 720, 1 Star is VGA 640 x 480 pixels.

- Slide the switch to the **CAM** position, LCD display will show WATCHMAN status screen.
- Press the **[M]** button once within 30 seconds to enter the programming mode.
- The word **PIR** will be blinking, press **[OK]** to confirm WATCHMAN's operation is PIR detection.
- Press **[UP]** or **[DN]** button until the word **VIDEO** is blinking.
- Press the **[OK]** button ONCE to confirm WATCHMAN in **VIDEO** mode, the **STARS** will be blinking.
- Press the **[UP]** or **[DN]** button to select the desired

resolution.

- Press **[OK]** to save your selection, then current number of video length will blink. Press **[OK]** button to enter video length setting or press **[M]** to exit.

Setting the Video length in PIR mode:
Your WATCHMAN can be programmed to record 5-300 seconds of video per triggering. The Video mode is only workable under PIR mode.

- Slide the switch to the **CAM** position, LCD display will show WATCHMAN status screen.
- Press the **[M]** button once within 30 seconds to enter the programming mode.
- The word **PIR** will be blinking, press **[OK]** to confirm WATCHMAN's operation is PIR detection.
- Press **[UP]** or **[DN**] button until the word **VIDEO** is blinking.
- Press the **[OK]** button ONCE to confirm WATCHMAN in **VIDEO** mode.
- Press **[UP]** button ONCE and the video length in seconds will be blinking.
- Press **[UP]** or **[DN]** button to select the desired video length from 5 to 300 seconds in 5-second increments.
- Press **[OK]** to save your selection then the time out **T-O** will blinking. Press **[OK]** button to enter time out setting or press **[M]** button to exit.

Setting the Time Out in PIR mode:

Your WATCHMAN can be programmed to set the amount of time in seconds or minutes WATCHMAN will sleep between PIR triggers.

- Slide the switch to the **CAM** position, LCD display will show WATCHMAN status screen.
- Press the **[M]** button once within 30 seconds to enter the programming mode.
- The word **PIR** will be blinking, press **[OK]** to confirm WATCHMAN's operation is PIR detection.
- Press **[UP]** or **[DN**] button until the word **T-O** (Time Out) is blinking.
- Press **[OK]** button and the **MINUTES** digits will be blinking.
- Press **[UP]** or **[DN]** button to increase or decrease the time value in minutes from 00 to 10 minutes in 1-minute increments.
- Press **[OK]** to save the minute setting and the **SECONDS** digits will be blinking.
- Press **[UP]** or **[DN]** button to increase or decrease the time value in seconds from 01 to 55 seconds in 5-second increments.
- Press **[OK]** to save the second setting.
- You'll then see the word **T** (Time) blinking. Press **[OK]** button to enter time setting or press **[M]** button to exit.

Setting the Time and Date in PIR operation mode:

Your WATCHMAN uses the 24hr military time format.

- Slide the switch to the **CAM** position, LCD display will show WATCHMAN status screen.
- Press the **[M]** button once within 30 seconds to enter the programming mode.
- The word **PIR** will be blinking, press **[OK]** to confirm WATCHMAN's operation is PIR detection.
- Press **[UP]** or **[DN**] button until the word **T** is blinking.
- Press **[OK]** to enter Minute setting first.
- The **MINUTE** digits will be blinking.
- Press **[UP]** or **[DN]** to increase or decrease the minute value (00 – 59).
- Press **[OK]** to save your selection and enter Hour setting.
- The **HOUR** digits will be blinking.
- Press **[UP]** or **[DN]** to increase or decrease the hour value (00 – 23).
- Press **[OK]** to save your selection and enter Month setting.
- The **MONTH** digits will be blinking.
- Press **[UP]** or **[DN]** to increase or decrease the Month value (1 - 12).
- Press **[OK]** to save your selection and enter Day setting.
- The **DAY** digits will be blinking.
- Press **[UP]** or **[DN]** to increase or decrease the Day value

(01 – 31).

- Press **[OK]** to confirm the Date setting and enter Year setting.
- The **YEAR** digits will be blinking.
- Press **[UP]** or **[DN]** to increase or decrease the Year value (01 – 99).
- Once this is all done, press [**OK]**. You'll then see the word - **dEL** - blinking.
- Press **[M]** button to exit the program setting and back to the status screen.

Setting the Time Lapse Mode:

The Time Lapse default setting value is from 17:00 to 07:00 the next day. When WATCHMAN is set to use the Time-Lapse mode **(TLS)**, the program settings will follow the Time Lapse settings. Outside of the Time Lapse time frame; WATCHMAN will follow the user defined PIR settings.

The user can set the program for a pre-determined time period [such as 19:00 to 07:00]. The user then sets the frequency of still images only (video function not available in Time Lapse mode). WATCHMAN will remain in Time Lapse mode until the user has changed the program setting.

- Slide the switch to the **CAM** position, LCD display will show WATCHMAN status screen.
- Press the **[M]** button once within 30 seconds to enter the programming mode, the word **PIR** or **TLS** will be blinking.
- Press **[UP]** button until you see the word **TLS** blinking.

- Press **[OK]** to confirm and go into TLS Mode "Start Time" setting.

- The display will show **T** + **S-88:88** (S = Start, 88:88 = time in HH:MM).
- Press **[OK]** to set the “Start Time” setting. At this point you can adjust the time from 00:00 to 23:59.

- The **MINUTE** digits will be blinking.
- Press **[UP]** or **[DN]** to increase or decrease the minute value (00 – 59).
- Press **[OK]** to save your selection and enter Hour setting.

- The **HOUR** digits will be blinking.
- Press **[UP]** or **[DN]** to increase or decrease the hour value (00 – 23).
- Press **[OK]** to save the “Start Time” setting and move to the “End Time” setting.
- After completing the start time setting, WATCHMAN will go into TLS Mode "End Time" setting.
- The display will show **T** + **E-88:88**
- (E = End, 88:88 = time in HH:MM)
- At this point you can adjust the time from 00:00 to 23:59 by pressing the **[UP/DN/OK]** buttons same as Start Time

settings.

- Press **[OK]** to save the "End Time" settings and move directly to the **TIME OUT** setting.
- Please complete the TIME OUT, Still Image Resolution, Burst Mode settings like the settings on the PIR operation mode.
- Then press **[M]** button to exit.

EXAMPLE:

#1: If a user selected the Time Lapse mode, and sets the Start Time to 07:00 and End Time at 20:30, then selects the Timeout to be 3 mins with a Burst mode of 3 pictures, this means that WATCHMAN will keep taking 3 pictures for every 3 minutes within the time frame of 7:00AM to 8:30PM. When not within the Time Lapse time frame, WATCHMAN will follow the normal PIR detection settings.

#2: If a user selected the Time Lapse mode setting as Start Time 00:00 and End Time 00:00, then selected the Timeout to be 5 mins with a Burst mode of 3 pictures, this means WATCHMAN will keep taking 3 pictures for every 5 minutes, 24 hours a day non-stop.

Time Lapse Setup Recommendations:

We recommend that if you are using the Time Lapse feature and what to extend your battery life and get the most pictures possible, use the following settings:

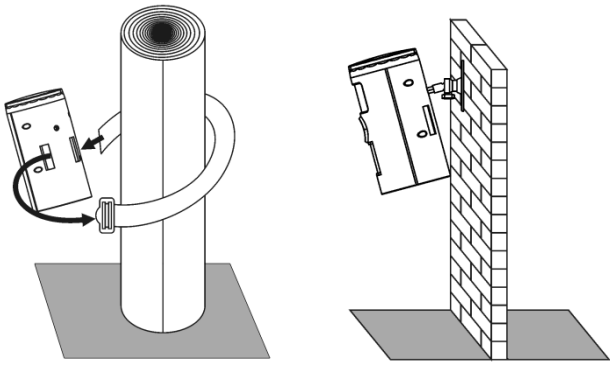
Batteries: Alkaline batteries
Resolution: Base (1 Star–3Mp)
Time Out: 15 seconds

Setting up WATCHMAN in the field:
Once all program settings have been setup properly, your WATCHMAN is ready for a field use.

Getting started
Listed below are some helpful pointers on how to use your WATCHMAN to get the best results.

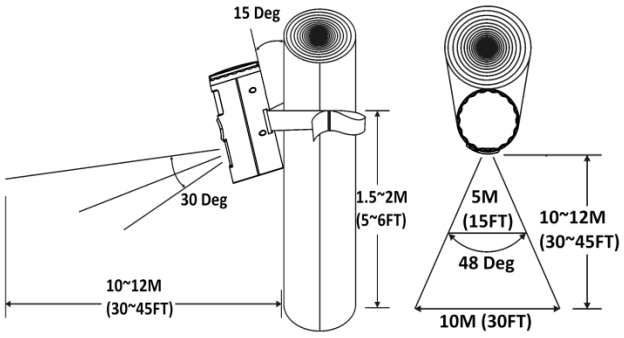
- Mount WATCHMAN about 1.5~2M (5~6 feet) high with WATCHMAN pointed at a slight downward angle.
- Mount WATCHMAN facing north or south **NOT** east or west due to the rising and setting of the sun could produce false triggers and overexposed images.
- If you're covering a trail, face WATCHMAN down or up the trail. Most commercial WATCHMANs take one seconds to sense motion/heat and take a picture.
- Clear out any brush or weeds in front of WATCHMAN. This will cause false pictures caused wind or high temperature days.
- Double check battery before turning on WATCHMAN for use.
- Make sure to insert the memory card after setting up WATCHMAN.
- Make sure to turn WATCHMAN to **CAM** or **PSET** mode (or take out of Test Mode) before you leave.
- Verify time and date is correct.

(Example: Mounting)



Pillar or tree mounting Wall mounting

(Example: Trail Setup)



Effective Range Effective Angle

Using WATCHMAN in PIR Detection Mode

- Mount WATCHMAN to the tree or wall or other sturdy object using either a supplied wall mounting device or supplied mounting strap.
- Open the bottom housing and slide the switch to either one of the **CAM** or **PSET** modes. At this point, you have 30 seconds to make any mode selection changes before WATCHMAN is ready to use.
- If you chose CAM mode then please ensure that your WATCHMAN is in the PIR mode and not Time Lapse **(TLS)**. If you are not sure, please follow the "**WATCHMAN setup and program**" above to set WATCHMAN into the proper mode.

To Capture Images, make sure display reads CAM:
Once in **CAM** mode, if the display does not read **CAM** then,

- Press the **[M]** button once.
- If the LCD display does not show word **CAM** in blinking.
- Press the **[UP]** button ONCE to toggle to WATCHMAN mode.
- Press the **[OK]** button and then **[M]** Button to exit.

To Capture Videos, make sure display reads VIDEO:
Once in **CAM** mode, if the display does not read **VIDEO** then,

- Press the **[M]** button once.

- If the LCD display does not show word **VIDEO** in blinking.
- Press the **[UP]** button ONCE to toggle to Video mode.
- Press the **[OK]** button and then **[M]** Button to exit.
- 30 seconds after you've made your adjustments, the laser beam will begin blinking and enter count down mode. This is your indication to leave the coverage area within one minute.
- After one minute, WATCHMAN will enter either Burst mode or Video mode based on your program setting. WATCHMAN will then time out between 05-59 seconds or 1-59 minutes, depending on your program setting.

➢ **NOTE: The time between motion detection and WATCHMAN taking the pictures may vary due to lighting conditions, program settings, and battery power level. The IR Emitter will only be activated in low light conditions.**

Using WATCHMAN in Time Lapse Mode

- Mount WATCHMAN to the tree or wall or other sturdy object using either a supplied wall mounting device or supplied mounting strap.
- Open the bottom housing and slide the switch to **CAM** mode. At this point, you have 30 seconds to make any mode selection changes before WATCHMAN is ready to use.
- Make sure your WATCHMAN is in Time Lapse **(TLS)** mode and not PIR mode. If you are not sure, please follow the "**WATCHMAN setup and program**" above to set

WATCHMAN into **TLS** mode.

- 30 seconds after you've made your adjustments, the laser beam will begin blinking and enter countdown mode. This is your indication to leave the coverage area within one minute, and then WATCHMAN will enter Time Lapse Mode.

Viewing and Deleting Files

WATCHMAN offers the user different options for viewing their images. You can view images or videos through either on your computer, or your home TV that's equipped with an RCA Input jack. The LCD display on bottom of the housing will show the number of images stored on the SD memory card.

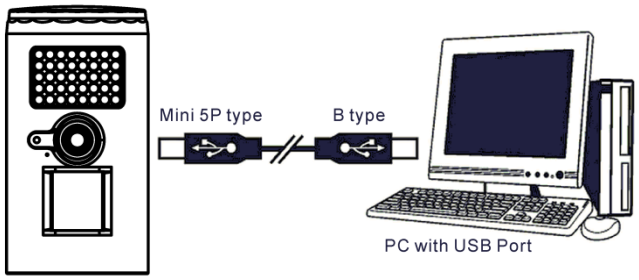
- **NOTE: The instructions below are based on starting with a WATCHMAN that's power is turned off.**

Viewing files by a computer

Your WATCHMAN is a plug and play USB storage device for users of Windows 2000 / ME / XP / Vista / Windows 7 operating systems. This WATCHMAN is compatible with MAC 10.6 and above.

Viewing files on your computer via USB connection.

- Make sure WATCHMAN's power switch is in the **OFF** position.
- Plug the larger end of the USB cable into an available USB port on your computer.



Plug the smaller end of USB cable into WATCHMAN's side panel.

- WATCHMAN will automatically power ON and display the word **USb** on the LCD display.
- At the same time, your computer will recognize WATCHMAN as a Removable Storage device. You will find it under MY COMPUTER.
- At this point you have several options:
  - **To view your images or play your videos:** Click on the Removable Storage device and then drill down to the file you want to see and double click on the file name.
  - **To save your images and videos:** Highlight the file or files you want to save and drag them to your hard drive.
  - **To delete your images and videos:** Highlight the files or files you want to delete and press the **[DELETE]** button.
  - **To erase all files and reformat you SD memory card:** Right click on the Removable Storage device under My Computer and select **FORMAT** then click **START.** You will receive a Warning message press **[OK]**. Then **CLOSE to** exit.
  - **NOTE: When you format the memory device, previously stored images will be erased.**

- Once you're done, simply unplug the cable from both your computer and WATCHMAN. WATCHMAN will turn OFF automatically.

For Viewing on Your home TV:

- Attach the provided TV out cable to the TV port on the bottom of WATCHMAN.
- Insert the other end into the RCA VIDEO IN jacks on the TV.
- Turn on both WATCHMAN and the TV.
- Make sure to switch to AUX / VIDEO IN mode on your TV.
  - (**See your TV owner's manual for directions).**
- WATCHMAN's TV OUT is set to NTSC by default. (NTSC – Standard North American TV format)
  - If the TV monitor doesn't flicker, then you do not need to change your WATCHMAN's TV OUT setting. Proceed to the next section called Thumbnail Images.
  - If the TV monitor does flicker, then you will need to proceed to the next step '**TV Out System Settings**" to change your WATCHMAN's TV OUT from NTSC to PAL (Standard European TV format).
- You will see a series of thumbnail images on your TV.
- Press the **[UP]** or **[DN]** button to navigate through your thumbnail images.
- On the upper left hand corner of your TV monitor, it will either display the image OR the image with a video icon which indicates it's a video clip.

- To view in full screen, press the **[OK]** button.
- Press the **[OK]** button again, it will return to the thumbnail view from the full screen image.
  - **NOTE: All videos are recorded with audio but only have sound when viewing playback on a PC.**

TV Out System Settings:

- Press the **[M]** button once.
- The word "tu" on WATCHMAN's internal screen will be blinking.
- Press the **[OK]** once and now you'll see " **tu – n** " blinking.
- Press the **[DN]** button to set WATCHMAN's TV OUT to PAL.
- The word "tu **– P**" will now be blinking.
- Press the **[OK]** to confirm this setting.
- The word "tu **- P**" will be blinking and then stops.
- Once the blinking stops, power off WATCHMAN. Wait for 5 seconds and then power up your WATCHMAN again.

Deleting files in the field

- Slide the switch the **CAM** position.
- LCD screen will display WATCHMAN status screen.
- Press the **[M]** button within 30 seconds to enter the programming mode.
- Press the **[DN]** button until you see the word **- dEL -** in blinking on LCD display.

- Press **[OK]** button to enter the DELETE & FORMAT menu.
- Press **[UP]** or **[DN]** button to select the desired function.
  - **NO-dL** (No Delete) - No images get deleted.
  - **d-ONE** (Delete One) - Only the last file will get deleted.
  - **d-ALL** (Delete ALL) - Deletes ALL images on the SD card.
  - **Ft** (Format) - Deletes all files and reformats the SD card.
- Press [OK] to confirm your selection.
- Press **[M]** button to exit the program setting and back to the status screen.

Technical Specifications

System Requirements and Compatibility:

- Windows Me/2000/XP/Vista/Windows 7 and MAC 10.6 or above
- Pentium 4, 2GHz or above
- 1GB RAM (2GB recommended)
- 32 bits color, Resolution 800x600 or above w/ 256MB
- 2GB free hard disc space
- An available USB 1.1 port (USB 2.0 recommended)
- Direct X 9.0 or above – Should come with your operating system already.
- Windows compatible sound card and speaker.

WATCHMAN Features and Specification:

- High precision multi-layer glass lens with coating.
- Focusing: 1.5M (5 ft.) to infinity.
- Effective viewing angle: 50 degrees
- Infrared LED effective Range for picture up to 18M (50 ft.)
- Infrared LED effective Range for Video clip up to 18M (50 ft.)
- PIR detection angle: 48 degrees
- Image resolution Options: 8.0M, 5.0M, 3.0M.
- Video resolution Options: HD 720P, VGA 640 x 480 pixels with Audio recording.
- Image interpolated from 5M Sensor
- Capturing Options: 1 - 9 image burst mode or 300 seconds video recording with audio.
- Time Lapse Mode: Sets the frequency of pictures during a time period.
- Hybrid mode: PIR capture and Time Lapse mode auto changing.
- Time Out Feature: 1 sec – 600 sec with 5 seconds increment.
- Real time clock for date and time stamping.
- Image format: Standard JPEG/Motion JPEG.
- Auto white balance and auto expose.
- Auto IR emitter light control.

- Built in B&W LCD display.
- External memory support: SD memory card up to 32GB.
- Laser beam TEST indication and countdown indication.
- Interface type: USB 2.0
- Built in TV out port.
- Power: C size alkaline Batteries x 4
- External power: DC 6 Volts power adaptor:
  WM-Adaptor (Sold separately, only available in the US.)

FDA WARNING NOTE

COMPLIES WITH: 21 CFR 1040.10

WATCHMAN™ is a product of OPTEX Co., Ltd,
5-9-12 Ogoto Otsu Shiga 520-0101 Japan

Manufactured: 12.2014 by Dongguan Wintech Electronics CO., Ltd of Dong Guan Fung Kong City Zhu Tang Red Flower Village Ma Pu Industry Zone, PRC.

FCC Compliance Declaration

This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television receptions, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measure:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- Shield USB cable with ferrite must be used with this unit to ensure compliance with the Class B FCC limits.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment